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**STUDIES OF THE SULPHUR-MAT FORMATION AND THE  
SULPHUR BACTERIA OF THE HOT MINERAL SPRINGS  
OF YUMOTO NEAR NIKKO [STUDIEN UEBER DIE  
SCHWEFELRASENBILDUNG UND DIE  
SCHWE-ELBACTERIEN DER THERMEN VON YUMOTO BEI  
NIKKO]**

M. Miyoshi, Washington NASA Nov. 1970 31 p refs Transl.  
into ENGLISH of J. of the Faculty of Sci., Imperial Univ. of Tokyo,  
v. 10, 1897 p 143 - 173  
(Contract NASw-2037)

(NASA-TT-F-12738) Avail: NTIS CSCL 06M

A detailed description of the formation is given, including  
water temperature and currents data. The bacteria responsible for  
the formation, divided into colorless and colored varieties, are  
carefully enumerated and described. Laboratory experiments relating  
to the chemotactic sensitivities of *Chromatium weissii*, one of the  
colored varieties are described. The organism is also found to be  
sensitive to tactile stimuli.

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DESCRIPTORS: \*Cotton textiles, Textiles.

A device on the spinning frame was tested which allows the thread to be wound on to the bare spindle or a very fine bobbin during spinning. The spindle of the spinning frame is made square or triangular with a constant cross-section. On to the spindle is threaded a very light disk of special form with a hole in the center corresponding to the spindle outline. The disk rotates together with the spindle and has the same angular velocity. The bottom surface of the disk bears on nose of the cop and, as the latter grows, moves up along (Materials--Textiles, TT, v. 6, no. 1) (over)

61-13771

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(*WC-3004* ).

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